Geometry Honors

Properties of Kites and Trapezoids

**Kites:**

Draw a kite. The angles formed by the congruent sides are called vertex angles.

1. Measure each angle. What conclusion can you make?
2. Draw the diagonals. What can be said about their angle of intersection?

1. Measure the lengths of the four segments of the diagonals formed by the intersection of the two diagonals. What conclusion can you make?
2. Measure the eight angles formed by the diagonals. What conclusion can you make?

**Trapezoids:**

Draw a trapezoid.

1. Measure each angle. What can be said of consecutive angles?

**Isosceles Trapezoids:**

Construct an isosceles trapezoid.

1. Measure the angles of the trapezoid. What conclusions can you make?
2. Construct and measure the diagonals. What conclusions can you make?